	Acromovitica Educator Civida				
	Aeronautics Educator Guide 1998 Science Content Standards				
California Science		Content Stant	aarus		
Grade 2					
Activity/Lesson	State	Standards			
Activity/Lesson	State	Standards	The motion of objects can be observed and		
			measured. As a basis for understanding this		
			concept Students know the position of an object		
			can be described by locating it in relation to		
Air Engines (12-16)	CA	SCI.2.PS.1.a	another object or to the background		
All Linglines (12-10)		301.2.1 3.1.a	The motion of objects can be observed and		
			measured. As a basis for understanding this		
			concept Students know an object's motion can		
			be described by recording the change in position		
Air Engines (12-16)	CA	SCI.2.PS.1.b	of the object over time		
, ai Engines (12-10)		301.2.1 0.1.0	The motion of objects can be observed and		
			measured. As a basis for understanding this		
			concept Students know the way to change how		
			something is moving is by giving it a push or a		
			pull. The size of the change is related to the		
			strength, or the amount of force, of the push or		
Air Engines (12-16)	CA	SCI.2.PS.1.c	pull		
7 til Eliginoo (12 10)		001.2.1 0.1.0	Scientific progress is made by asking		
			meaningful questions and conducting careful		
			investigations. As a basis for understanding this		
			concept and addressing the content in the other		
			three strands, students should develop their own		
			questions and perform investigations. Students		
			will Use magnifiers or microscopes to observe		
			and draw descriptions of small objects or small		
Air Engines (12-16)	CA	SCI.2.IE.4.f	features of objects		
, , , , , , , , , , , , , , , , , , ,			The motion of objects can be observed and		
			measured. As a basis for understanding this		
			concept Students know an object's motion can		
			be described by recording the change in position		
Rotor Motor (69-75)	CA	SCI.2.PS.1.b	of the object over time		
, ,			Scientific progress is made by asking		
			meaningful questions and conducting careful		
			investigations. As a basis for understanding this		
			concept and addressing the content in the other		
			three strands, students should develop their own		
			questions and perform investigations. Students		
			will Construct bar graphs to record data, using		
Rotor Motor (69-75)	CA	SCI.2.IE.4.e	appropriately labeled axes		
			The motion of objects can be observed and		
Where is North? The			measured. As a basis for understanding this		
Compass Can Tell Us			concept Students know magnets can be used to		
(87-90)	CA	SCI.2.PS.1.f	make some objects move without being touched		

Dunked Napkin (17-22)	CA	SCI.2.IE.4.a	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed patterns and not random guessing Scientific progress is made by asking
Dunked Napkin (17-22)	CA	SCI.2.IE.4.e	meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Construct bar graphs to record data, using appropriately labeled axes
Dunked Napkin (17-22)	CA	SCI.2.IE.4.g	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Follow oral instructions for a scientific investigation
Paper Bag Mask (23-28)	CA	SCI.2.IE.4.a	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed patterns and not random guessing
Paper Bag Mask (23-28)	CA	SCI.2.IE.4.b	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Measure length, weight, temperature, and liquid volume with appropriate tools and express those measurements in standard metric system units
Wind in Your Socks) (29-35)	CA	SCI.2.IE.4.a	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed patterns and not random guessing

			investigations. As a basis for understanding this concept and addressing the content in the other
			three strands, students should develop their own
			questions and perform investigations. Students
			will Measure length, weight, temperature, and
			liquid volume with appropriate tools and express
Wind in Your Socks)			those measurements in standard metric system
(29-35)	CA	SCI.2.IE.4.b	units
			Scientific progress is made by asking meaningful questions and conducting careful
			investigations. As a basis for understanding this
			concept and addressing the content in the other
			three strands, students should develop their own
			questions and perform investigations. Students
Wind in Your Socks)			will Write or draw descriptions of a sequence of
(29-35)	CA	SCI.2.IE.4.d	steps, events, and observations
			Scientific progress is made by asking
			meaningful questions and conducting careful investigations. As a basis for understanding this
			concept and addressing the content in the other
			three strands, students should develop their own
			questions and perform investigations. Students
Wind in Your Socks)			will Construct bar graphs to record data, using
(29-35)	CA	SCI.2.IE.4.e	appropriately labeled axes
			Scientific progress is made by asking
			meaningful questions and conducting careful
			investigations. As a basis for understanding this
			investigations. As a basis for understanding this concept and addressing the content in the other
			investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own
			investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed
Right Flight (52-59)	CA	SCI.2.IE.4.a	investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed patterns and not random guessing
Right Flight (52-59)	CA	SCI.2.IE.4.a	investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed patterns and not random guessing Scientific progress is made by asking
Right Flight (52-59)	CA	SCI.2.IE.4.a	investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed patterns and not random guessing Scientific progress is made by asking meaningful questions and conducting careful
Right Flight (52-59)	CA	SCI.2.IE.4.a	investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed patterns and not random guessing Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this
Right Flight (52-59)	CA	SCI.2.IE.4.a	investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed patterns and not random guessing Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other
Right Flight (52-59)	CA	SCI.2.IE.4.a	investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed patterns and not random guessing Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own
Right Flight (52-59) Delta Wing Glider (60-	CA	SCI.2.IE.4.a	investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed patterns and not random guessing Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other
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Delta Wing Glider (60-	CA	SCI.2.IE.4.a	investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed patterns and not random guessing Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed patterns and not random guessing
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Delta Wing Glider (60-	CA	SCI.2.IE.4.a	investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed patterns and not random guessing Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed patterns and not random guessing ator Guide ce
Delta Wing Glider (60-	CA	SCI.2.IE.4.a ronautics Educa 1998 Scien	investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed patterns and not random guessing Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed patterns and not random guessing ator Guide ce
Delta Wing Glider (60-68)	CA	SCI.2.IE.4.a ronautics Educa 1998 Scien	investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed patterns and not random guessing Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Make predictions based on observed patterns and not random guessing ator Guide ce

Air Engines (12-16)	CA	SCI.3.IE.5.a	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Repeat observations to improve accuracy and know that the results of similar scientific investigations seldom turn out exactly the same because of differences in the things being investigated, methods being used, or uncertainty in the observation
Air Engines (12-16)	CA	5CI.3.IE.5.a	Scientific progress is made by asking
Air Engines (12-16)	CA	SCI.3.IE.5.b	meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Differentiate evidence from opinion and know that scientists do not rely on claims or conclusions unless they are backed by observations that can be confirmed
Air Engines (12-16)	CA	SCI.3.IE.5.c	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Use numerical data in describing and comparing objects, events, and measurements
Flight: Interdisciplinary Learning Activities (76- 79)	CA	SCI.3.IE.5.e	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Collect data in an investigation and analyze those data to develop a logical conclusion
We Can Fly, You and I: Interdisciplinary Learning (107-108)	CA	SCI.3.IE.5.e	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Collect data in an investigation and analyze those data to develop a logical conclusion

Dunked Napkin (17-22)	CA	SCI.3.IE.5.b	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Differentiate evidence from opinion and know that scientists do not rely on claims or conclusions unless they are backed by observations that can be confirmed
Dunked Napkin (17-22)	CA	SCI.3.IE.5.d	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Predict the outcome of a simple investigation and compare the result with the prediction
Dunked Napkin (17-22)	CA	SCI.3.IE.5.e	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Collect data in an investigation and analyze those data to develop a logical conclusion
Paper Bag Mask (23-28)	CA	SCI.3.IE.5.c	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Use numerical data in describing and comparing objects, events, and measurements
Paper Bag Mask (23-28)	CA	SCI.3.IE.5.d	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Predict the outcome of a simple investigation and compare the result with the prediction

Wind in Your Socks) (29-35)	CA	SCI.3.IE.5.a	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Repeat observations to improve accuracy and know that the results of similar scientific investigations seldom turn out exactly the same because of differences in the things being investigated, methods being used, or uncertainty in the observation
Wind in Your Socks) (29-35)	CA	SCI.3.IE.5.b	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Differentiate evidence from opinion and know that scientists do not rely on claims or conclusions unless they are backed by observations that can be confirmed
Wind in Your Socks) (29-35)	CA	SCI.3.IE.5.c	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Use numerical data in describing and comparing objects, events, and measurements
Wind in Your Socks) (29-35)	CA	SCI.3.IE.5.e	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Collect data in an investigation and analyze those data to develop a logical conclusion
Right Flight (52-59)	CA	SCI.3.IE.5.d	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Predict the outcome of a simple investigation and compare the result with the prediction

Delta Wing Glider (60- 68)	CA	SCI.3.IE.5.d	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Predict the outcome of a simple investigation and compare the result with the prediction
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	Acit	1998 Science	
		Content Standa	
California Science			
Grade 4			
Activity/Lesson	State	Standards	Oniontific and a second by a selice
			Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Differentiate observation from inference (interpretation) and know scientists' explanations come partly from what they observe and partly from how they interpret their
Air Engines (12-16)	CA	SCI.4.IE.6.a	observations
A. F (40.40)			Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Construct and interpret graphs from
Air Engines (12-16)	CA	SCI.4.IE.6.e	measurements
Where is North? The Compass Can Tell Us (87-90) Where is North? The	СА	SCI.4.PS.1.f	Electricity and magnetism are related effects that have many useful applications in everyday life. As a basis for understanding this concept Students know that magnets have two poles (north and south) and that like poles repel each other while unlike poles attract each other Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Differentiate observation from inference (interpretation) and know scientists' explanations come partly from what they
Compass Can Tell Us (87-90)	CA	SCI.4.IE.6.a	observe and partly from how they interpret their observations

			Scientific progress is made by asking
			meaningful questions and conducting careful
			investigations. As a basis for understanding this
			concept and addressing the content in the other
			three strands, students should develop their own
			questions and perform investigations. Students
Dunked Napkin (17-			will Formulate and justify predictions based on
22)	CA	SCI.4.IE.6.c	cause-and-effect relationships
,			Scientific progress is made by asking
			meaningful questions and conducting careful
			investigations. As a basis for understanding this
			concept and addressing the content in the other
			three strands, students should develop their own
			questions and perform investigations. Students
			will Conduct multiple trials to test a prediction
Dunked Napkin (17-			and draw conclusions about the relationships
22)	CA	SCI.4.IE.6.d	between predictions and results
,		1	Scientific progress is made by asking
			meaningful questions and conducting careful
			investigations. As a basis for understanding this
			concept and addressing the content in the other
			three strands, students should develop their own
			questions and perform investigations. Students
Dunked Napkin (17-			will Follow a set of written instructions for a
22)	CA	SCI.4.IE.6.f	scientific investigation
,			Scientific progress is made by asking
			meaningful questions and conducting careful
			investigations. As a basis for understanding this
			concept and addressing the content in the other
			three strands, students should develop their own
			questions and perform investigations. Students
			will Differentiate observation from inference
			(interpretation) and know scientists'
			explanations come partly from what they
Paper Bag Mask (23-			observe and partly from how they interpret their
28)	CA	SCI.4.IE.6.a	observations
20)	OA .	301.4.1L.0.a	Scientific progress is made by asking
			meaningful questions and conducting careful
			investigations. As a basis for understanding this
			concept and addressing the content in the other
			three strands, students should develop their own
			questions and perform investigations. Students
Paper Bag Mask (23-			will Formulate and justify predictions based on
28)	CA	SCI.4.IE.6.c	cause-and-effect relationships
		331. F.IE.3.0	Scientific progress is made by asking
			meaningful questions and conducting careful
			investigations. As a basis for understanding this
			concept and addressing the content in the other
			three strands, students should develop their own
			questions and perform investigations. Students
			will Conduct multiple trials to test a prediction
Paper Bag Mask (23-			and draw conclusions about the relationships
28)	CA	SCI.4.IE.6.d	between predictions and results
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Paper Bag Mask (23-28)	CA	SCI.4.IE.6.e	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Construct and interpret graphs from measurements
Wind in Your Socks) (29-35)	CA	SCI.4.IE.6.a	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Differentiate observation from inference (interpretation) and know scientists' explanations come partly from what they observe and partly from how they interpret their observations
Wind in Your Socks) (29-35)	CA	SCI.4.IE.6.b	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Measure and estimate the weight, length, or volume of objects
Wind in Your Socks) (29-35)	CA	SCI.4.IE.6.e	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Construct and interpret graphs from measurements
Right Flight (52-59)	CA	SCI.4.IE.6.a	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Differentiate observation from inference (interpretation) and know scientists' explanations come partly from what they observe and partly from how they interpret their observations

Right Flight (52-59)	CA	SCI.4.IE.6.c	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Formulate and justify predictions based on cause-and-effect relationships
Delta Wing Glider (60-	CA	SCI.4.IE.6.a	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Differentiate observation from inference (interpretation) and know scientists' explanations come partly from what they observe and partly from how they interpret their observations
Delta Wing Glider (60-	CA	SCI.4.IE.6.c	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will Formulate and justify predictions based on cause-and-effect relationships